

## Rawlins County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/12/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 14 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Rawlins County economy.<sup>1</sup>

These 14 sectors have a total direct output of approximately **\$159.3 million** and support **426 jobs** in Rawlins County. Running the model for all 14 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Rawlins County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
Direct Effect	425.8	22.95%	\$26,422,570	21.94%	\$159,330,085	132.27%
Indirect Effect	260.3	14.03%	\$15,413,846	12.80%	\$24,366,227	20.23%
Induced Effect	49.3	2.66%	\$3,918,599	3.25%	\$6,607,544	5.49%
Total Effect	735.4	39.64%	\$45,755,014	37.98%	\$190,303,856	157.99%

As shown in the above table, agriculture, food, and food processing sectors support **735 jobs**, or **39.64%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$190.3 million**, roughly **157.99% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 14 agriculture, food, and food processing sectors is approximately **\$45.8 million**, or **37.98% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **37.98% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **175 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Rawlins County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	175.1	\$30,383,756
Support activities for agriculture and forestry	159.9	\$6,954,489
Grain farming	96.5	\$49,513,268
Other animal food manufacturing	45.0	\$57,255,391
Wholesale trade	40.6	\$9,566,039
All other crop farming	34.5	\$3,581,397
Animal production, except cattle and poultry and eggs	26.7	\$4,132,884
Dairy cattle and milk production	16.5	\$5,521,445
Landscape and horticultural services	13.4	\$370,781
Securities and commodity contracts intermediation and brokerage	10.0	\$613,875

The other animal food manufacturing sector directly contributes approximately **\$57.3 million** to the Rawlins County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Other animal food manufacturing	45.0	\$57,255,391
Grain farming	96.5	\$49,513,268
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	175.1	\$30,383,756
Wholesale trade	40.6	\$9,566,039
Support activities for agriculture and forestry	159.9	\$6,954,489
Dairy cattle and milk production	16.5	\$5,521,445
Animal production, except cattle and poultry and eggs	26.7	\$4,132,884
Farm machinery and equipment manufacturing	8.7	\$3,871,696
All other crop farming	34.5	\$3,581,397
Oilseed farming	1.8	\$2,546,032

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Rawlins County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	1.8	\$2,546,031.52
Grain farming	96.5	\$49,513,268.34
All other crop farming	34.5	\$3,581,397.12
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	175.1	\$30,383,756.14
Dairy cattle and milk production	16.5	\$5,521,444.58
Poultry and egg production	0.2	\$149,437.35
Animal production, except cattle and poultry and eggs	26.7	\$4,132,883.74
Commercial hunting and trapping	1.1	\$23,053.78
Other animal food manufacturing	45.0	\$57,255,390.93
Animal, except poultry, slaughtering	1.9	\$1,257,235.31
Bread and bakery product, except frozen, manufacturing	1.3	\$218,496.46
Farm machinery and equipment manufacturing	8.7	\$3,871,695.67
Veterinary services	3.0	\$505,213.11
Landscape and horticultural services	13.4	\$370,780.69

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Rawlins County, the retail sector was omitted.